



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Chan-Soo HWANG et al.                      Group Art Unit: 2681  
Serial No.: 10/692,896                                      Docket: 678-1248 (P10799)  
Filed: October 24, 2003                                      Dated: November 21, 2005  
For: **RECEIVING APPARATUS IN A RADIO COMMUNICATION  
SYSTEM USING AT LEAST THREE TRANSMITTER ANTENNAS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to Applicant's continuing duty of disclosure, it is respectfully requested that the reference listed in the attached form PTO-1449 be considered by the Examiner and made of record in the above-identified application. A copy of the reference is attached hereto.

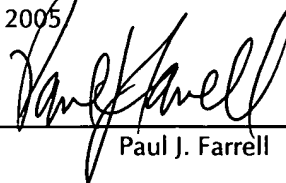
The citation of the listed item is not a representation that it constitutes a complete or exhaustive listing of the relevant art or that the reference is prior art. The item listed is submitted in good faith, but is not intended to substitute for the Examiner's search. It is hoped, however, that in addition to apprising the Examiner of this particular item, it will assist in identifying fields of search and in making as full and complete a search as possible.

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 21, 2005

Dated: November 21, 2005

  
Paul J. Farrell

The listed item was cited by the Japanese Patent Office in a counterpart application, namely Appln. No. 2004-004579. A copy of the Japanese Office Action dated October 18, 2005 is attached hereto.

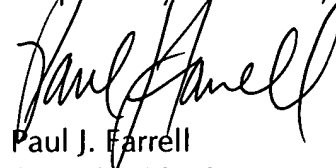
The filing of this Supplemental Information Disclosure Statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The claims of the application as now presented are believed to patentably distinguish over the prior art and to be in condition for allowance. Early and favorable consideration of the case is respectfully requested.

**CERTIFICATION UNDER 37 C.F.R. §1.97(e)(2)**

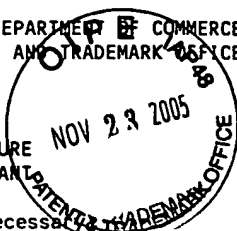
Applicant submits that each item of information contained in the Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application no more than three months prior to the filing of the Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", is written over the typed name.

Paul J. Farrell  
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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 678-1248	SERIAL NO. 10/692,896
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		APPLICANT Chan-Soo HWANG et al.	
		FILING DATE October 24, 2003	GROUP ART UNIT 2681

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

		1.	Hamid Jafarkhani, "A Quasi-Orthogonal Space-Time Block Code", IEEE Transactions on Communications, Vol. 49, No. 1, pp. 1-4, January 2001.

EXAMINER	DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.